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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/051,450	04/06/1998	EIJI MURAMATSU	9319S-000059	8010
7590	01/02/2004		EXAMINER	
G GREGORY SCHIVLEY HARNESS DICKEY & PIERCE PO BOX 828 BLOOMFIELD HILLS, MI 48303			NGO, HUYEN LE	
			ART UNIT	PAPER NUMBER
			2871	

DATE MAILED: 01/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/051,450	MURAMATSU, EIJI	
	<b>Examiner</b>	<b>Art Unit</b>	
	Julie-Huyen L. Ngo	2871	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on \_\_\_\_.
- 2a) This action is **FINAL**.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 25-37 is/are pending in the application.
- 4a) Of the above claim(s) 27-29 and 31-37 is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 25 and 26 is/are rejected.
- 7) Claim(s) 30 is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. §§ 119 and 120

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
 \* See the attached detailed Office action for a list of the certified copies not received.
- 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.  
 a) The translation of the foreign language provisional application has been received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_ .
- 4) Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_ .
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: \_\_\_\_\_ .

## DETAILED ACTION

### ***Response to Amendment***

The amendment filed on October 24, 2003 presents amendments to claims 25 and 31; and request for entry of previously submitted new claims 25-37 (amendment submitted on January 31, 2002).

Amended claims 25, 26 and 30 are readable on the elected species of figure 4, and are being considered as set forth below.

However, claims 27-29 and 31-37 are still NOT read on the elected species of figure 4, which Applicant has elected without traverse in paper no. 9, because of the limitations recited in the following claims:

Claim 27 recites, “*said light shielding member further comprises a polarizing plate positioned on a surface of said second substrate*”. Note that the light shielding member 47 as shown in figure 4 does not comprise the polarizing plate 7 positioned on a surface of said second substrate 2.

Claim 28 recites, “said polarizing plate extends over said semiconductor device and attaches to said first substrate”. Note that the polarizer recited in claim 27 is attached to the second substrate 2, and figure 4 does not show that said polarizer is extended over the semiconductor and attached to said first substrate!

Claim 29 recites, “*said light shielding member further comprises a resin filled in said gap*”. Note that figure 4 does not show any resin filled in the gap.

Claim 31 recites “*a light shielding member positioned over said semiconductor element and extending at least partially into said light path*,” which is formed from a light

source, through the gap that is between the semiconductor element 12 and the edge of second substrate 2, through the first substrate 1, and ***to the active surface 12a of said semiconductor element 12.*** Note that the light shielding member 47 is completely covered the semiconductor element 12, than ***how can a light path be formed to the active surface 12a of said semiconductor element 12?***

Applicant is to note that the location of the light shielding film members recited in claims 32, 34 are not shown in the embodiment of figure 4.

Claim 33 recite, “*said light shielding member further comprises a resin disposed in the gap*”. This feature is not show in figure 4!

Claim 35 recites, “*said light shielding member further comprises a polarizing plate extending over said gap*”. Note that there is no such polarizer showing in figure 4.

The polarizers recited in claims 36 and 37 are not show in figure 4.

Therefore, claims 27-29 and 31-37 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made **without** traverse in Paper No. 9.

### ***Claim Objections***

Claim 30 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim in independent form.

Claim 30 recites, "*a second polarizing plate positioned on said first substrate so as to cover said semiconductor element*". However, claim 30 is depended from claim 25, which does not recite any first polarizer than how can there be a second polarizer??

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 25 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kawaguchi et al. (EP 0402 106 A2, submitted in IDS Paper No. 7).

Kawaguchi et al. disclose (figures 1-4) a liquid-crystal display device comprising:

Claim 25,

- a first transparent substrate 32;
- a second substrate 31 opposing said first substrate, said first substrate including an end portion extending beyond an edge of said second substrate 31;
- liquid crystal 33 positioned between said first and second substrates;

- a semiconductor element 36 mounted on said end portion of said first substrate spaced apart from said edge of said second substrate so as to form a gap between said edge of said second substrate and said semiconductor element;
- a light shielding member 38 positioned over said semiconductor element and extending at least partially into said gap.

Claim 26,

wherein said semiconductor device has an active surface and another surface opposite said active surface, said active surface facing the first substrate; and said another surface is covered with said light shielding member 38.

However, Kawaguchi et al. fail to disclose a backlight positioned behind said second substrate relative to said first substrate.

Although Kawaguchi et al. did not specifically disclose that their device comprises a backlight positioned behind said second substrate relative to said first substrate, it is well known and conventional in the art to have such back light to radiate light through the display device in a transmission display device when there is not enough ambient light.

Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to utilize a backlight positioned behind the second substrate relative to said first substrate in Kawaguchi et al. display for radiating light through the display in a transmission type liquid crystal display.

***Contact Information***

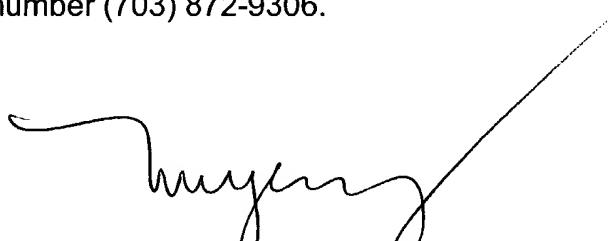
Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Julie-Huyen L. Ngo whose telephone number is (703) 305-3508. The Examiner can normally be reached on T-Friday.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, Mr. Robert H. Kim can be reached at (703) 305-3492.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Any facsimile-transmitted correspondence to this application should be faxed to the centralized facsimile number (703) 872-9306.

December 29, 2003



*Julie-Huyen L. Ngo*

**Patent Examiner  
Art Unit 2871**